CONTENTS

I	PAGE
Preface	V
William C. de Mille, President of the Academy of Motion Picture Arts and Sciences.	
Acknowledgments	vii
Foreword	xiii
Carl Dreher, Director of the Sound Department, RKO Studios.	
I. The Ancestry of Sound Pictures	1
II. The Nature of Sound	13
SOUND RECORDING EQUIPMENT	
III. Introduction to Recording	34
IV. RECORDING SOUND ON DISC. Col. Nugent H. Slaughter, Chief Engineer in Charge of Recording for Warner Brothers Vitaphone Productions.	42
V. Sound Recording by RCA Photophone System	62
VI. Sound Recording by Fox Movietone System	71
VII. Sound Recording by the Light-valve System	84
VIII. TRANSMISSION CIRCUITS—THEORY AND OPERATION	96
IX. Accessory and Special Equipment. L. E. Clark, Technical Director of Sound, RKO Pathe Studios.	123
X. Dubbing	145

Снарты		PAGE
	THE FILM RECORD	
XI	The Film as a Recording Medium. Emery Huse, Manager, West Coast Division, Motion Picture Film Department, Eastman Kodak Company.	
XII	. Photographic Requirements of Variable-density Record-	
	Wesley C. Miller, Chief Engineer, Sound Department, Metro-Goldwyn-Mayer Studios.	166
XIII	Laboratory Technique for Sound Pictures	180
XIV.	Editing and Assembling the Sound Picture	196
	Studios.	,
	STUDIO ACOUSTICS AND TECHNIQUE	
XV.	THE ILLUSION OF REALITY IN SOUND PICTURES. Wesley C. Miller, Chief Engineer, Sound Department, Metro-Goldwyn-Mayer Studios.	210
XVI.	Introduction to Acoustics of Theatre and Sound Dr. Vern O. Knudsen, Associate Professor of Physics, University of California at Los Angeles. Vice-President, Acoustical Society of America.	218
XVII.	Sound Stages. Ralph H. Townsend, Supervising Engineer, RCA Photophone West Coast Studios. A. P. Hill, Acoustic Consulting Superintendent, Electrical Research Products, Inc.	242
XVIII.	Technique of Recording Control for Sound Pictures. J. P. Maxfield, Consulting Engineer, Electrical Research Products, Inc.	252
XIX.	Sound Recording Practice. Albert W. DeSart, Technical Director of Sound, Paramount-Publix Hollywood Studios.	268
	SOUND REPRODUCTION	
XX.	THE WESTERN ELECTRIC REPRODUCING SYSTEM. S. K. Wolf, Acoustic Consulting Manager, Electrical Research Products, Inc.	286
XXI.	THEATRE REPRODUCTION BY THE RCA PHOTOPHONE SYSTEM John O. Aalberg, Reproduction Supervisor, RKO Studios.	304

CHAPTER XXII. PRACTICAL ASPECTS OF THEATRE ACOUSTICS 316 F. L. Hopper, Acoustic Consulting Engineer, Electrical Research Products, Inc. XXIII. PRACTICE AND PROBLEMS OF SOUND PROJECTION 326 R. H. McCullough, Supervisor of Projection and Electrical Equipment, Fox West Coast Theatres. XXIV Sound Personnel and Organization 340 Carl Dreher, Director of Sound Department, RKO Studios. Appendix: A Glossary of Motion-Picture Terms 355